

93. Ties must not be used unless they have been inspected and marked or stamped, as called for by the standard specifications. (See Rule 298, "a" to "g".) The best ties should be selected for use at joints.

94. Joint ties must be spaced as shewn on standard plans; the remaining ties must be spaced uniformly between the joint ties.

95. All ties must be laid and kept at right angles to the track.

96. The spacing of ties in main track will vary according to the size of the ties. The number per 33 ft. rail length will be from 15 to 18 and spaced as per Standard Plan. The average number per 30 ft. rail length will be 16. In sidings, ties will be spaced from 15 in. to 20 in. apart.

97. The ends of cross ties in single tracks must be lined true on the south or east side of the track. The distance from the lined end of an eight foot tie to the outer edge of the base of standard 85 lb. rail is 16 inches. A gauge notch should be cut in the spike maul handles for measuring this distance. On double track, the ties should be lined on the outside of each track.

98. Cross ties should never be notched, but if necessary must be adzed, in order to obtain a true uniform bearing for the tie plate or the base of the rail.

99. Every Foreman must keep in his hand-car house and with his gang a supply of wooden tie plugs, which will be provided on requisition. The invariable rule must be to plug every hole wherever